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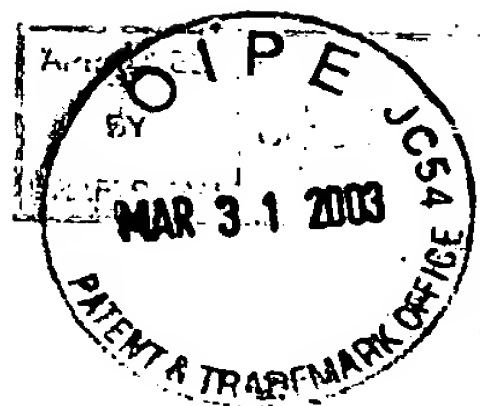
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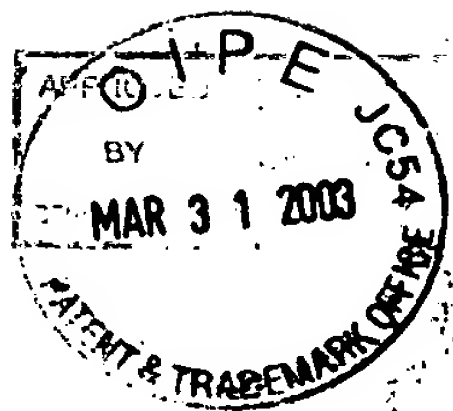


Applicant: Vanitha Ramakrishnan and David R. Phillips
Title: TRANSGENIC ANIMALS HAVING A MODIFIED
GLYCOPROTEIN V GENE
Attorney/Agent: Tracy M. Sioussat
Docket No.: MPI98-149PIUSRCM

FIG. 1A

GAATTCATTG	GCCTTATTTA	AGAAATAAAA	TGTTGAGCAA	AAGAGATGGC	50
TCATCAGGTA	AAGATACCTC	CCAAGACATG	GTGTGAGTCC	TTGGGAACCT	100
ACGTGGAGGA	AGGTGAGAAC	CAATTGCCTA	AAGTTTCTTG	ACACCCACAA	150
GTGAGGCACT	GCCACATGCA	CCCACATACT	CCTGCACAGG	AATGAGTTAG	200
TGCAATGTAG	CATGGAAAAA	AACCATAAAGT	GTGGCCCATG	TAATGACAGC	250
CTGCTATTTC	TGGGAAAACT	TAGGCCCTCT	ACTCTCTAGC	TTTTACAAAA	300
GGACTTTTAA	CTATGGACTC	TGAAAGTTTG	AAAGCTCTTG	TCATTAAAAAC	350
CTAGAATATG	CCCTATGGAG	ATAGTCTTTT	TCTTGACTTT	TTATCTGGTA	400
AGGTCTTTAT	CTTGAGGATG	CAAGAATACT	TCCCTCTTCC	TCTCTGAAGT	450
GCCAAGTCAC	AAGCAGAGCT	GCAAGCCTTT	CAGTCAGTCC	AGGTGCAGA	500
ACTGCTTCAG	GTAAGGCCAA	ATATTCTTAA	ATTAGTGTA	GCAGTTAGAG	550
GCTCAGTCTG	TATAGGGGCA	GAAGGAGACC	TGGTACAAGA	AACAGTACAA	600
ATTTTACTT	GGGAACACAG	GTAAACTAGT	ATTACTGTGT	GCTTCCTGGG	650
TAACTCAATG	CCCAGAGTAG	TTTTATTAA	CAGCTTGGTG	TATAAGCAAA	700
CAGTAGCTCA	TTATTTTAA	GTGTGAGTCA	GAAAAACATC	TTCAAATGCT	750
ACTTATGTGA	CACCTTAAAT	AACCTCATGT	ACACTGGAGC	GACCAGCCTA	800
CTGCACTCGT	GTTACTGTAA	CAGTGCAAA	TTCAGAAAA	CATGGCATAA	850
AGCAATGGGC	ATTATCACCT	GCACCACTGG	GCTCCGGGCC	GGAGTTACA	900
AAACGGTGTA	ATGAGTTGTG	GGGTGTTGGT	ACTTTGAAAA	TATGTAAGAA	950
ATTGAATCTA	GTGGAAGTGG	GCCTTGCTGC	GGTTCTCTTG	CTGACTGTTG	1000
GGGATAAAGC	TCCCTGCTTA	ACTTGTTAAA	GTCAGTGACA	CAGCCAGTCC	1050
CAGGAGGCGT	TGCTTTCTAT	TCTCTGAAAA	AGACCCGTAGC	AATTTTAATT	1100
CGTTCTGTAA	CGATTTTAA	GTATTCTGTA	GCTTGAAAA	GCCCAAATGT	1150
CAATGCTCTA	AACAGAAACCG	GGGAGATGGC	TGACTGGATA	AAAATGGGAA	1200
CCTGTAAAGAC	TGATCTACTC	TCCAATAACCC	ACATATGCTG	AATAGAAAA	1250
TAATTTTTTT	TTAATCAGCC	TTTGTAAGAT	AGAGGAAGAC	TTGGTTGTAT	1300
CTGAGCGTTC	CAAGGCCGTG	AGAGTGCTGG	CCCAAAAAC	GTGCTTGCAG	1350
CAGTGCGTGC	AGGGCTCCAG	GATATGCTCT	GAGCCTTGTT	TTTGCTCTTG	1400
CATTTCAGAC					

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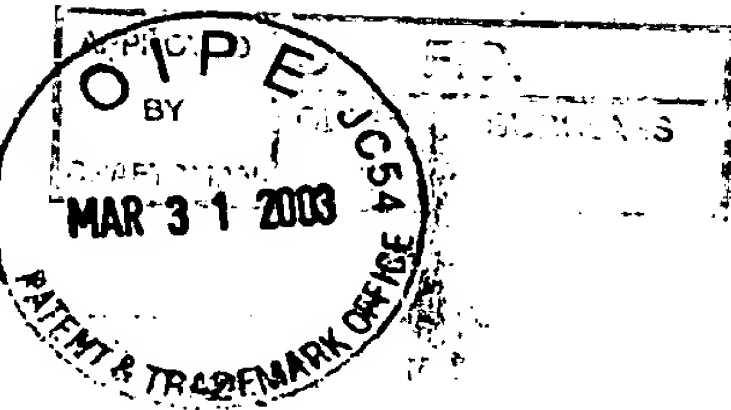


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FIG. 1B

TGCGTGCCCA	(start)	ATGCTAAGAA	GCGCCCTGCT	GTCCGCGGTG	CTCGCACTCT
GATGCCGCGC	ACCTTTTCCC	TGCCCCAAAA	TGCCCCAAAA	CCTGCAAGTG	TGTGGTCCGC
TCTGCCCTACG	AGTGCTCGGG	CGGCAGCGTG	CGGCAGCGTG	GCTCACATCG	CTGAGCTAGG
TATTGCGGAA	AACCTCACAC	ACATCCTGCT	ACATCCTGCT	CTTCCGAATG	GACCAGGGCA
CTCTCAGATA	CCACAGCTTC	AGCGGCATGA	AGCGGCATGA	CAGTCCTTCA	GCGCCTGATG
GGTAAAACTG	GCCACATTTC	CGCCATCGAC	CGCCATCGAC	CCCGGCACCT	TCAATGACCT
CACGTGCGAT	AAAACCCCTCA	GGTTGACGCG	GGTTGACGCG	CAACAAAATC	TCTCGTCTTC
CACAAATGCAC	CCTGGATAAG	ATGGTACTCT	ATGGTACTCT	TGGAACAGCT	GTTCTTGGAC
CCTTCAGGAG	TAAGGGACCT	TGATCAAAAC	TGATCAAAAC	CTGTTTCAGC	AACTGCGTAA
ACCTTTTCTC	CTCGGTTTGA	ACCAGAATCA	ACCAGAATCA	GCTCTCTTTT	CTTCCTGCTA
AACCTGACCC	GAGCCTGAGA	GAACTGAAGT	GAACTGAAGT	TGTTGGATTT	ATCGCGAAAC
GAAACTGCTG	ACCTGCCCAA	GGGACTGCTT	GGGACTGCTT	GGGCTCAAG	TTAAGCTTGA
TGAGCAACCT	CTCTATTCAA	ACCAGCTCAC	ACCAGCTCAC	GTCTGTGGAT	TCGGGGCTGC
CGCTCCGTAG	GGCGGCCCTG	ACTGAGCTGC	ACTGAGCTGC	GGCTGGAGCG	GAATCACCTC
GACTCTATCC	CCCCGGGTGC	CTTCGACCCG	CTTCGACCCG	CTCGGAAACC	TGAGCTCCTT
ACGTGAGCAG	GGAAACCTCC	TGGAGTCTCT	TGGAGTCTCT	GCCGCCCGCG	CTCTTCCTTC
CTCCCGGACG	CGTGTCTCGG	CTGACTCTGT	CTGACTCTGT	TCGAGAAACC	CCTGGAGGAG
GAACGGCAC	TGTTGTTCCG	GGAGATGGCC	GGAGATGGCC	GGCCTGCGGG	AGCTGTGGCT
	CACCTGAGCA	CGCTGCCCGC	CGCTGCCCGC	CGCTGCCTTC	CGCAACCTGA

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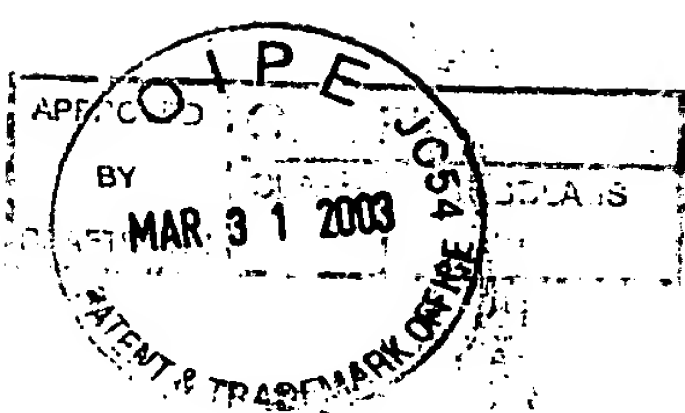


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FIG. 1C

GCGGCTTGCA	GACGCTGGGG	CTGACGCGGA	ACCCGCGCCT	GAGCGCGCTC	2400
CCGCGCGGG	TGTTCCAGGG	CCTACGGGAG	CTGCGCGTGC	TCGCGCTGCA	2450
CACCAACGCC	CTGGCGGAGC	TGCGGACGA	CGCGCTGCGC	GGCCTCGGGC	2500
ACCTGCGCCA	GGTGTGCTG	CGCCACAACC	GGCTGCGGGC	CCTGCCCCGC	2550
ACGCTCTTCC	GCAACCTCAG	CAGCCTCGAG	AGCGTGCAGC	TAGAGCACAA	2600
CCAGCTGGAG	ACGCTGCCAG	GAGACGTGTT	CGCGGCTCTG	CCCCAGCTGA	2650
CCCAGGTCCT	GCTGGGTCAC	AACCCCTGGC	TCTGCCACTG	TGGCCTGTGG	2700
CCCTTCCTCC	AGTGGCTGCG	GCATCACCCG	GACATCCTGG	GCCGAGACGA	2750
GCCCCCGCAG	TGCCGTGGCC	CGGAGCCACG	CGCCAGCCTG	TCGTTCTGGG	2800
AGCTGCTGCA	GGGTGACCCG	TGGTGCCCGG	ATCCTCGCAG	CCTGCCCTCTC	2850
GACCCCTCCAA	CCGAAATGTC	TCTGGAAGCC	CCGGTTCCGT	CCTGGCTGCC	2900
TAACAGCTGG	CAGTCCCAGA	CGTGGGCCCA	GCTGGTGGCC	AGGGGTGAAA	2950
GTCCCATAAA	CAGGCTCTAC	TGGGGTCTTT	ATATTCTGCT	TCTAGTAGCC	3000
CAGGCCATCA	TAGCCGCGTT	CATCGTGTTT	GCCATGATTA	AAATCGGCCA	3050
GCTGTTTCGA	ACATTAAATCA	GAGAGAAGCT	CTTGTTAGAG	GCAATGGGAA	3100
AATCGTG					
(stop)					
TAA	CTAATGAAAC	TGACCAGAGC	ATTGTGGACG	GGGCCCCAAG	3150
GAGAAATGCAG	TCAGGATGCT	GGCGTGCCAT	TACACTATT	CCCAGGCCTT	3200
TTCTCCTCTC	CCGTGCTCTT	AGTGCTCTCT	CTTCTCCCCT	CTCTTCAGAA	3250
GTAGCTTTTG	TAAATCGCTA	CTGCTTTCTA	GCCTGGCCCTG	GGTTACCTCC	3300
TCTGCTGTTA	GTTTCAAGGG	GGCTGAGGGT	GGGGTTCCGA	CGGGACTTGG	3350
CTCATCAGGT	CCAACGTGTC	AGCGCTGGGT	GCCTAGTGGA	GAGAGGAGCC	3400
CTTTCTTGGT	TTCTGAATTT	GAGGACACAT	CCTGCCAGTG	GGCAAGACCT	3450
CTCCGGGACC	CAGCAAGGGT	TGAGTAACAT	TTGCTGAAGG	AACACCGGCT	3500
TAAACGAAC	CCTAGGTCCA	AGAGATGAAG	GCTCTTCCCA	AAATAAAGGT	3550
GGAGTGTTCT	TGTCCCTTTA	CCTGAAAGGA	GAATTC		3586

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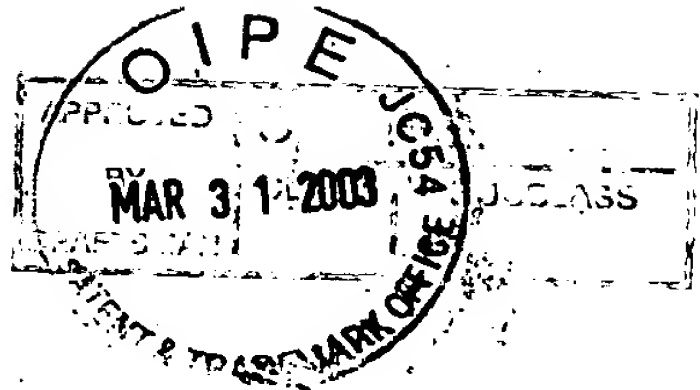


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FIG. 2

MLRSALLSAV	LALLRAQPFP	CPKTKCKVVR	DAAQCSGGSV	AHIAELGLPT	50
NLTHILLFRM	DQGILRNHSF	SGMTVLQRLM	LSDSHISAID	PGTFNDLVKL	100
KTILRLTRNKI	SRLPRAILDK	MVLLLEQLFLD	HNALRDLDQN	LFQQLRNLQE	150
LGLNQNLQSF	LPANLFSSLR	ELKLLDLSRN	NLTHLPKGLL	GAQVKLEKLL	200
LYSNQLTSVD	SGLLSNLGAL	TELRLEARNHL	RSVAPGAFDR	LGNLSSLTLS	250
GNNLESPPA	LFLHVSSVSR	LTLFENPLEE	LPDVLFGEMA	GLRELWLNGT	300
HLSTLPAAAF	RNLSGLQTLG	LTRNPRLSAL	PRGVFQGLRE	LRVLALHTNA	350
LAELRDDALR	GLGHLRQVSL	RHNRLRALPR	TLFRNLSSLE	SVQLEHNQLE	400
TLPGDVFAAL	PQLTQVLLGH	NPWLCDCGLW	PFLQWLRHHP	DILGRDEPPQ	450
CRGPEPRASL	SFWELLQGDP	WCPDPRSLPL	DPPTENALEA	PVPSWLPNSW	500
QSQTWAQLVA	RGESPNRRLY	WGLYILLLLVA	QAIIAAFIVF	AMIKIGQLFR	550
TLIREKLLLE	AMGKSC				566

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FIG. 3A

5' - TGATCGGAAC TGAAGACCT CCCGCGATAC CTGGCAGAGG CAGTGGCTCT 50
TRE
TCCCTGTGGT CCAGGGGTGA CTGACTTTGA AGGTAATTTT AGTCAACCCA GCCTTTACTG 110
GGCTCTGACT GCATTAGGCT GCATCAAAGG GGATTGGATC CCATGATTCT TTATATCTTC 170
TGACATTAAAG CTTTGTGTCAG CTATAGGTGT TACAAATATC TTTAGTTTGT GGTATATCTT 230
TTCCCTTTT TTATGGTGTG TTGAAGGATA GAAGTCTTAA TGCAGACAGC ATTATCAGTG 290
TGTTCAAAAG ACAGCTAGAC ACGTTTGTCC TATAGACAAA TGGGCAAAAG GAAACCCAGC 350
TTTCTCAAAT GAAGCACAAAG TGGGCTTAA TTATGTGAAA AGGTGTTCAA GTTCATCATT 410
AAACAGGGAA AGGAAAAGTT AAAACCATGC TGAGATATCT TTCATAGAAA TGGCAAAAAG 470
Ets-1
CAGGAAGTGC CAGGTGTGGG CAGAGAGGAA GACAGGGAAC TCTCACAAAT GGCAGGTGTC 530
ATCGTAGACC AACACAACCA CTTTGGAGAG CAGTTTGACT TTCCCCAGTT AAAGTGAACA 590
TGTGAGCGGC CGGGCGTGGT GGCTCATGCC TGTAAATCCA GCAGTTTGGG AGGCCGAGGC 650
GGGCGGATTG CCTGAGCTCA GGAGTTCAAG ACCAGCCAGG GCAACACGGT AAAACCCCGT 710
CTCTACTAAA ATACAAAAAA TTAGCTGGGC GTGATGGTGT GTGCCTGTAA TCCAGCTAC 770
TTGTAGGCC GAGGCAGGAG AATTGCTTGA ACCAGGGAGC AGGAGGTTGC AGTGAGCCGA 830
GATCGCACCA CTGCACCCA GCGTGGCGAC AGAGTCCCCC TCCCCACCA AAAAAACAAC 890
Ets-1
AAGTGAGCAT CCTGCAACCT AGCAATGCCA TTGTTGAACA AGTTCAAAGA TGTCTTAGC 950
CTTATTAGTC CCAAAAGGAA GAAAAAATG GAGGATTTGA GAATGTTCTT AGCTTTATTG 1010
CTAAGCGGAG AAAGAAAAAC AACACATACC AAAAAAAAAA AAAAAAAAAA AAAAAACAA 1070
AAAACCTGGG TGGGAAATTA GGGCCATGTG GCATGAAAAG GAAGACCCAG GGAAGTGTG 1130
Spl
GCCCATCTAG GGGTGTGGT ACTGCAGTGA TCCAGCTGTA TCACTGAACT TCCGTGGCAT 1190
TATA
CATAGAGTTA TATTTGTGCCA TTTATGGAAA AACTCTCCCC ACTGCTCTTG GCTTTGACAG 1250
TATA
TAGGAATCAG GTTATATATG GTCTCTCGGT TTGAAGATA TGTGATTAA AAACCAGAAC 1310
GATA
AAGGGCTCTG AGATAGGGTC CTTTCCTGAC CTACTCTGGT AAAGTCTTTA TCCTCAGGAT 1370
CAAGGATAC CACCCTCTTC CTGTGAAAG TGTCCAATCA CATGCAGAGC TCTAAGTCTT 1430
V
TCAGTTACTT TGGAGTGCAG AACCATTTC A Gglaaggcca aatattttta acattaglat 1490
aggaaattag agggctcttt aglctgtgtg tgcattgagaa gtaaaattgc acgagaagca 1550
atttatgtaa aatttcgctt aggaacattt gttttggtag gttagtagta tgggtgtgtat 1610
ttcccagaaa attcagtgcc gtgaglatto cttttagtta agcalttag aatlogtgc 1670
tcttatgttt tatggctaac tcagaaatac taccctcaaa ttctatgtga cctlogttat 1730
octgttgagc ctftctgtgc ctcgtgtgct tcatccttga atcggggata atatacttac 1790
ctcctaaggf tatltglaagg attaaatgca tglaglataa ataaagagct gagaaacatg 1850
catggcgtaa agtga taggt attatattat gtttttgttg gctgttgttt gaagggtgtt 1910
getgttttgg ggggtgctct taatagagta acttggtaet gtggaaatag catgatgtgt 1970
agcaaaagaa tcagatgggt gtggctgcag octttgtgtt tcccttcttg actgttgggt 2030
atagccaatg cagggttaagt tataaagtca agagcagagc cgttttccca atggacattg 2090
ctttgtgatg tctgtgagct tgaatgtgag aatgattatt ttaattctct atgtaagac 2150
tttaaaagtat tggctatfcg gtgacttgat ttctctgtaa tctcatgctt taacatgaga 2210
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tgcccttgca cooagtgag gatccaggg ttcatgacag gcgcgaacgc tectgtgtgt 2390
Met
tgaccacact cccacgggtg ctttttttagA CATGCTGAGG GGGACTCTAC TGTGCGCGGT 2450

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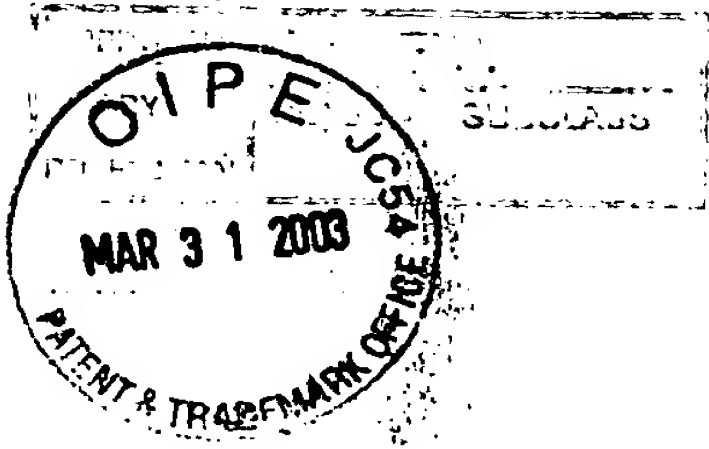
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FIG. 3B

GCTCGGGCTT	CTGCGCGCCC	AGCCCTTCCC	CTGTCCGCCA	GCTTGCAAGT	GTGTCTTCCG	2510
GGACGCGCGG	CAGTGCTCGG	GGGCGGACGT	GGCGCGCATC	TCCGCGCTGG	GCCTGCCAC	2570
CAACCTCAGG	CACATCCTGC	TCTTCGGAAT	GGGCGCGGCG	GTCCTGCAGA	GCCAGAGCTT	2630
CAGCGGCATG	ACCGTCCTGC	AGCGCCTCAT	GATCTCCGAC	AGCCACATTT	CCGCCGTTGC	2690
CCCCGGCACC	TTCAGTGACC	TGATAAAACT	GAAAACCCCTG	AGGCTGTCCG	GCAACAAAAT	2750
CACGCATCTT	CCAGGTGCGC	TGCTGGATAA	GATGGTGCTC	CTGGAGCAGT	TGTTTTTGGA	2810
CCACAATGCG	CTAAGGGGCA	TTGACCAAAA	CATGTTTCAG	AAACTGGTTA	ACCTGCAGGA	2870
GCTCGCTCTG	AACCAGAATC	AGCTCGATTT	CCTTCCTCCC	AGTCTCTTCA	CGAATCTGGA	2930
GAACCTGAAG	TTGTTGGATT	TATCGGGAAA	CAACCTGACC	CACCTGCCCA	AGGGGTTGCT	2990
TGGAGCACAG	GCTAAGCTCG	AGAGACTTCT	GCTCCACTCG	AACCGCCTTG	TGTCTCTGGA	3050
TTGCGGGCTG	TTGAACAGCC	TGGCGGCCCT	GACGGAGCTG	CAGTTCCACC	GAAATCACAT	3110
CCGTTCCATC	GCACCCGGGG	CCTTCGACCG	GCTCCCAAAC	CTCAGTTCTT	TGACGCTTTC	3170
GAGAAACGAC	CTTGCGTTTC	TCCCTCTGCG	GCTCTTTCTT	CATTGCGACA	ATCTGACTCT	3230
GTTGACTCTG	TTGAGAAACC	CGCTGGCAGA	GCTCCC66GG	GTGCTCTTCG	GGGAGATGGG	3290
GGGCTGCGAG	GAGCTGTGGC	TGAACCGCAC	CCAGCTGCGC	ACCCTGCCCG	CCGCCGCCCT	3350
CCGCAACCTG	AGCCGCCTGC	GGTACTTAGG	GGTGA CTCTG	AGCCCGCGGG	TGAGCGCGCT	3410
TCCGCA66GG	GCCTTC CAGG	GCCTTGGCGA	GCTCCA66TG	CTC6CCCTGC	ACTCCAACGG	3470
CCTGACCGCC	CTCCCCGACG	GCTTGCTGCG	C6GCTCGGGC	AA6CTGCGCC	AGGTGTCCCT	3530
GGCGCGCAAC	AGGCTGCGCG	CCCTGCCCGG	TGCCCTCTTC	CGCAATCTCA	GCAGCCTGGA	3590
GAGCGTCCAG	CTCGAC CACA	ACCAGCTGGA	GAGCCTGCCT	GGCGACGTGT	TTGGGGCTCT	3650
GGCCCGGCTG	ACGGAGGTCC	TGTTGGGGCA	CAACTCCTGG	CGCTGCGACT	GTGGCCTGGG	3710
GCCCTTCCTG	GGGTGGCTGC	GGCAGCACCT	AGGCCTCGTG	GGCGGGGAAG	AGCCCCCAGG	3770
GTGCGCAGGC	CCTGGGGCGC	ACGCCGGCCT	GCCGCTCTGG	GCCCTGCCGG	GGGCTGACGC	3830
CGAGTGCCCG	GGCCCCCGGG	GCCCCCCTCC	CCGCCCCGCT	GCCACAGCT	CCTCGGAAGD	3890
CCCTGTCCAC	CCAGCCTTGG	CTCCCAACAG	CTCAGAACCC	TGGGTGTGGG	CCCAGCCGGT	3950
GACCACGGGC	AAAGGTCAAG	ATCATAGTCC	GTTCTGGGGG	TTTTATT TTC	TGCTTTTAGC	4010
TGTTCA66GG	ATGATCACCG	TGATCA TCGT	GTTTGCTATG	ATTAAAATTC	GCCAACTCTT	4070
		STOP				
TCGAAAATTA	ATCAGA GAG A	GAGCCCTTGG	GTAACCAAT	GGGAAAATCT	TCTAATTACT	4130
TAGAACCTGA	CCAGATGTGG	CTCGGAGGGG	AATCCAGACC	CGCTGCTGTC	TTGCTCTCCC	4190
TCCCTCCCCC	ACTCCTCCTC	TCTTCTTCCT	CTTCTCTCTC	ACTGCCACGC	CTTCCTTTCC	4250
CTCCTCCTCC	CCCTCTCCGG	TCTGTGCTCT	TCATTCTCAC	GGGCCCGCAA	CCCTCCTCT	4310
CTCTGTCCCC	GGCCGTCTCT	GGAAACTGAG	CTTGACGTTT	GTAACCTGTG	GTTGCCCTGG	4370
TTCCAGCTC	CACGGGGTGT	GCGCTGACAC	TGCGGGGGGG	CTGGACTGTG	TTGGACCCAT	4430
CCTTGCCCCG	CTGTGCCTGG	CTTGCCCTCT	GGTGGAGAGA	GGGACCTCTT	CAGTGTCTAC	4490
TGAGTAAGGG	GACAGCTCCA	GGCCGGGGCT	GTCTCCTGCA	CAGAGTAAGC	CGGTAAATGT	4550
TTGTGAAATC	AATGCGTGGA	TAAAGGAACA	CATGCCATCC	AAGTGATGAT	GGCTTTTCCT	4610
GGAGGGAAAG	GATAGGCTGT	TGCTCTATCT	AATTTTTTGT	TTTTGTTTTT	GGACAGTCTA	4670
GCTCTGTGGC	CCAGGCTGGC	GTGCACTGGG	CCGTCTCAGT	TCACTGCAGC	CTCCGCCCTC	4730
CAGGTTCAAG	TGATTCTCAT	GCCTCAGCGT	TCTGAGTAGC	TGGGATTAGA	GGCGTGTGCC	4790
ACTACACCCG	GCTAATTTTT	GTACTTTTIA	AAGTAGAGAC	GGGCTTTGCC	ATATTGGCCT	4850
GGCTGATCTC	AAACTCC TGG	TCTTGAAC TC	CTGGCCACAA	GTGATCTGCC	CGCCTTAGCC	4910
TCCCAAAGTG	CTGGGATTAC	AGCGGCAAGC	CAC TACACCT	GCCCTCTTCA	TCCAATTTIA	4970
TTTGAGAAGT	AGAGCTCTTG	CCATTTTTTC	CCTTGCTCCA	TTTTTCTCAC	TTTATGTCTC	5030
TCTGACCTAT	GGGCTACTTG	GGAGAGCACT	GGACTCCATT	CATGCATGAG	CATTTTCAGG	5090
ATAAGCGACT	TCTGTGAGGC	TGAGAGAGGA	AGAAAACACG	GAGCCTTCCC	TCCAGGTGCC	5150
CAGTGTAGGT	CCAGCCTGTT	TCC TGAGCCT	CCTGTGAGTT	TCCACTTGCT	TTACATCCAT	5210
GCAACATGTC	ATTTTGAAAC	TGGATTGATT	TGCATTTCTT	GGAACCTCTG	CACCTCATTT	5270
CACAAGCATT	TATGGAGCAG	TTAACATGTG	ACTGGTATTG	ATGAATATAA	TGATAAGCTT	5330

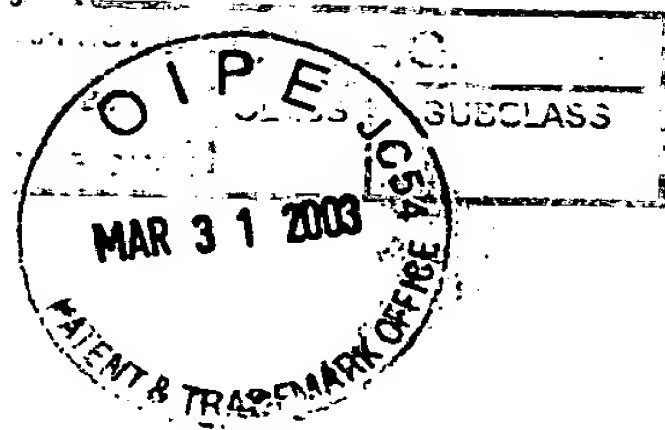


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FIG. 3C

GATTCTAGTT	CAGCTGCTGT	CACAGTCTCA	TTTGTTCCTC	CAACTGAAAG	CCGTAAAACC	5390
TTTGTTCCTT	TAATTGAATG	TCTGTGCTTA	TGAGAGGCAG	TGGTTAAAAC	ATTTTCTGGC	5450
GAGTTGACAA	CTGTGGGTTC	AAATCCCAGC	TCTACCACTT	ACTAACTGCA	TGGGACTTTG	5510
GGTAAGACAC	CTGCTTACAT	TCTCTAAGCC	TTGCTTTTCT	GAACCTTAAA	ACAGGATAAC	5570
ATAGTACCTG	CTTCATAGAG	TTTTGTGAGA	ATTAAAGGCA	ATAAAGCATA	TAATGACTTA	5630
GCCCAGCGGC	CTGCAGACAA	TACATGTTAA	TGAATGTTAG	CTATTATTAC	TAAAGATGAG	5690
CAATTATTAT	TGGCATCATG	ATTTCTAAAG	AAGAGCTTTG	AGTTGGTATT	TTTCTCTGTG	5750
TATAAGGGTA	AGTCCGAACT	TTCTCATACT	GGAGGTTACA	TTCACATCAG	TCTGTCTTCC	5810
CCTGCGGATG	GCCTCAGCCC	TGGGTGGCCA	GGCTCTGTGC	TCACAGTCCA	GAGCAATGGA	5870
TCCTCCAACA	CCACCAGGTG	GATGTGGAGC	AGGAGAGCTG	GATCGTGGCA	TTTGTTCCTG	5930
GGTTCTGCAG	TTGGGAGTTG	GTTTCTGGGT	TCTCCATTGG	TCTACTTGTC	TAGTCCCATA	5990
CCAGACTCAC	GGTCTCCATT	ATTGGAGCTT	TAATAATTTT	TGGTATAGGG	TCATCTCTCC	6050
ACCTTGTTTT	TCTTCTATTG	TTGGTTCTTT	GCAATTCTAT	GAATATTTCA	GGGTCAGCAT	6110
GTCAACTCCA	TTGAAAAACC	CTGCTGGGAT	TTTAATAGAA	CTTACAGCTC	ACGCCTGTAA	6170
TCCCAGCACT	TTGGGAGGCT	GAGGTGGGTG	GATCACAGGT	CAGGAGTTTG	AGAACAGCTG	6230
GCCAAGATGG	TGAAACCCCG	TCTCTACTAA	AAATACAAAA	ATTAGCTGGG	TGCGGTGGCA	6290
GGTGCCTGTA	GTCCCAGCTA	CTTGGGACAC	CGAGGCAGGA	GAATCACTTG	AACCCGGGAG	6350
GCGGAGGTTG	CAGTGAGCCG	AGATCGTGCC	ACTGCACTCT	AGCCTGGGCG	ACAGAAGCGAG	6410
ACTCCATCTC	AAAAAAAAAG	AAAAAGAAAA	TTGCAGTAAA	TTTAAACTA	ATTTGGGGAA	6470
GAATCTGTAT	TTTTACAATA	CCTAGTGTTT	TTGCCAGTAA	GCATGGTTCA	TCTTCCCAT	6530
TATTTACGTC	ATTTTAAATC	TTTCAGTGAT	GTTTTAGAAT	TTTTTTTATA	AAAACCTTCA	6590
CTATAAGAAC	AGAAAACCAA	ACACCGCATG	TTCTCACTCA	TAGGTGGGAA	TTGAACAATG	6650
AGAACACTTG	GACACAGGGC	GGGGAACGTC	ACACCGCTGG	ACTGTTGGGG	GGGTGGCTGG	6710
GAGAGGGATA	GTGTTAGGAG	AAATACCTAA	TGTAAATGAC	GAGTTAATGG	TGCAGCCAAC	6770
CAACCTGGCA	CATGTATTCA	TATGTAACAA	ACCTGCACGT	TGTGCACATG	TACCCTAGAA	6830
CTTAAAGTAT	ATTAAAAAAA	GAAAGCTTGG	CACTGATTTT	GTTAGATTTA	TTCCTAGGTA	6890
TCCTTCCTCT	TTTTTGATTT	GTCATTGCTA	TTGTAGATGG	CATCTTTTTA	AAAAGTTATA	6950
TTTTCTAAAG	CAAAAAATAA	AAAAAGTTGT	ATTTCTAATT	TTTATTACCA	ATATATAAGA	7010
ATGTAATTTA	TTTTTACATA	ATTATCTTAT	GTCTAGTAAT	AATTCTGATA	ATTTGCTTCT	7070
TCCTATTAAA	ACCTTACACC	CATTATTGAT	TTATTTTTCT	GTTTTAAAAT	ATCTTCCTGC	7130
ACTGGCTAAA	ACCTCCACTA	TAATGTTGAG	CAGAACAGTG	AGGCATCCTT	AGAACTATCT	7190
TGGTTGCAAA	GGGTAGGTCT	CTAATGTTTC	ATCAATAAAT	GTGATGTTTC	TAGTCTGAGT	7250
TTGCTAAGTA	TATTTTAAAA	TAATCAGTAA	AGTTAGATTT	TATCCATTTT	TATCTTAACT	7310
ATTGAGATGC	TCATATCATT	TTTCTTCTTC	AATGTGTTAA	AATGGTGAA	AAATTTATAG	7370
ATTTTGAAA	AGTAAATTCA	TTCTTGCATT	CCCGAAGTAA	ACCAAGCCAT	GCTATGTGTA	7430
TTTAAATAT	ATTGCTGAAT	TC-3				7452

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Attorney/Agent: Tracy M. Sioussat
Docket No.: MPI98-149PIUSRCM

FIG. 4

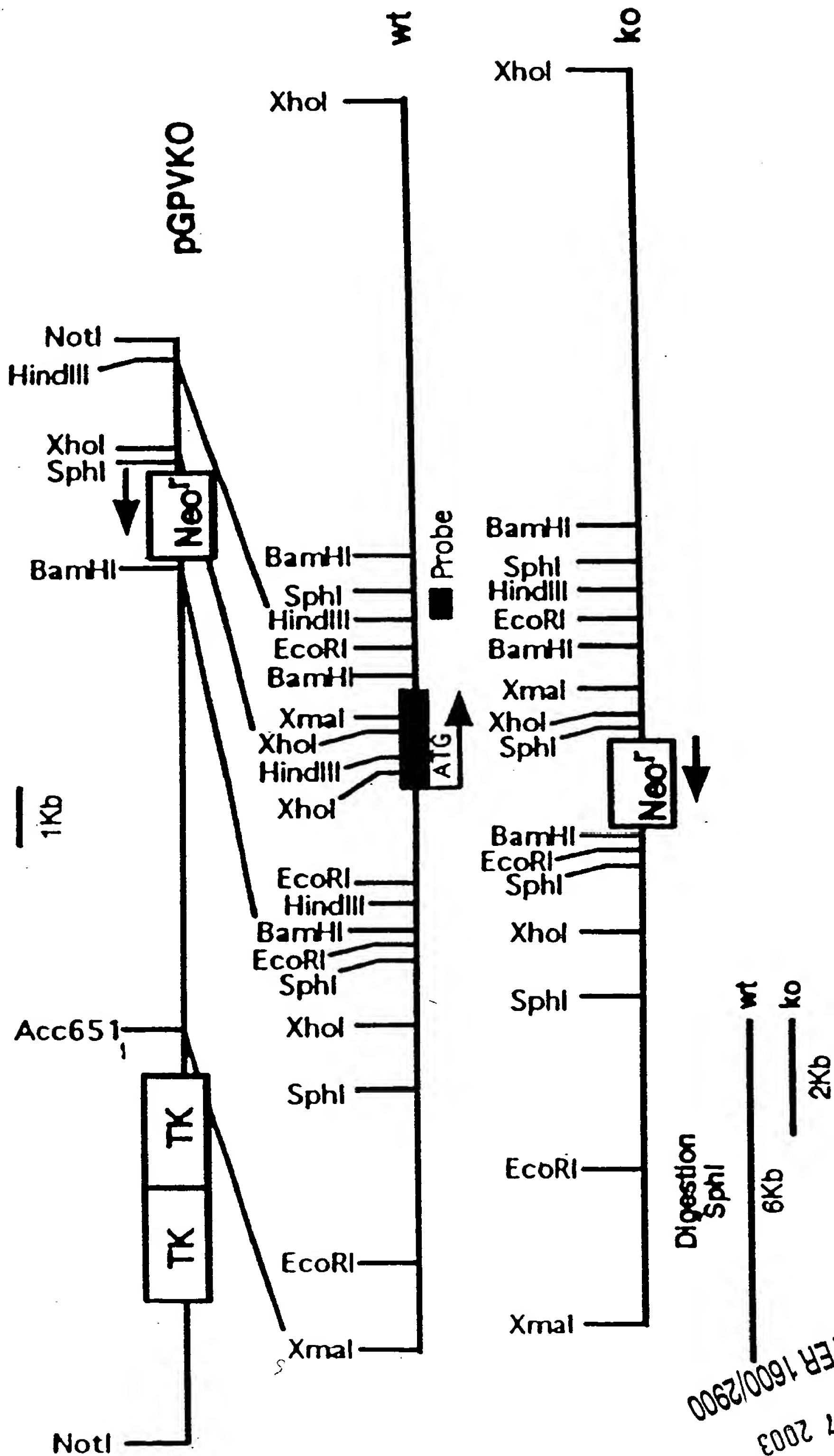
1 M L R G T L L (C) A V L G L L R A Q P F P (C) P P A (C) K (C) V F R
31 D A A Q (C) S G G D V A R I S A L G L P T N L T H I L L F G M
61 G R G V L Q S Q S F S G M T V L O R L M I S D S H I S A V A
91 P G T F S D L I K L K T L R L S R N K I T H L P G A L L D K
121 M V L L E Q L F L D H N A L R G I D Q N M F Q K L V N L Q E
151 L A L N Q N Q L D F L P A S L F T N L E N L K L L D L S G N
181 N L T H L P K G L L G A Q A K L E R L L L H S N R L V S L D
211 S G L L N S L G A L T E L Q F H R N H I R S I A P G A F D R
241 L P N L S S L T L S R N H L A F L P S A L F L H S H N L T L
271 L T L F E N P L A E L P G V L F G E M G G L Q E L W L N R T
301 Q L R T L P A A A F R N L S R L R Y L G V T L S P R L S A L
331 P Q G A F Q G L G E L Q V L A L H S N G L T A L P D G L L R
361 G L G K L R Q V S L R R N R L R A L P R A L F R N L S S L E
391 S V Q L D H N Q L E T L P G D V F G A L P R L T E V L L G H
421 N S W R (C) D (C) G L G P F L G W L R Q H L G L V G G E E P P R
451 (C) A G P G A H A G L P L W A L P G G D A E (C) P G P R G P P P
481 R P A A D S S S E A P V H P A L A P N S S E P W V W A O P V
511 T T G K G Q D H S P F W G F Y F L L L A V Q A M I T V I I V
541 F A M I K I G Q L F R K L I R E R A L G 560

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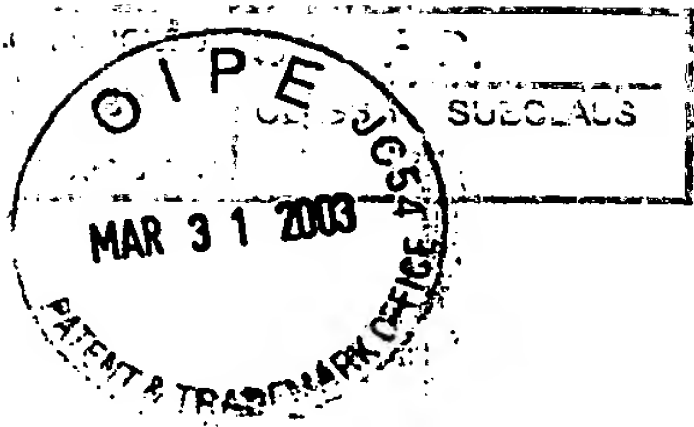


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FIG. 5

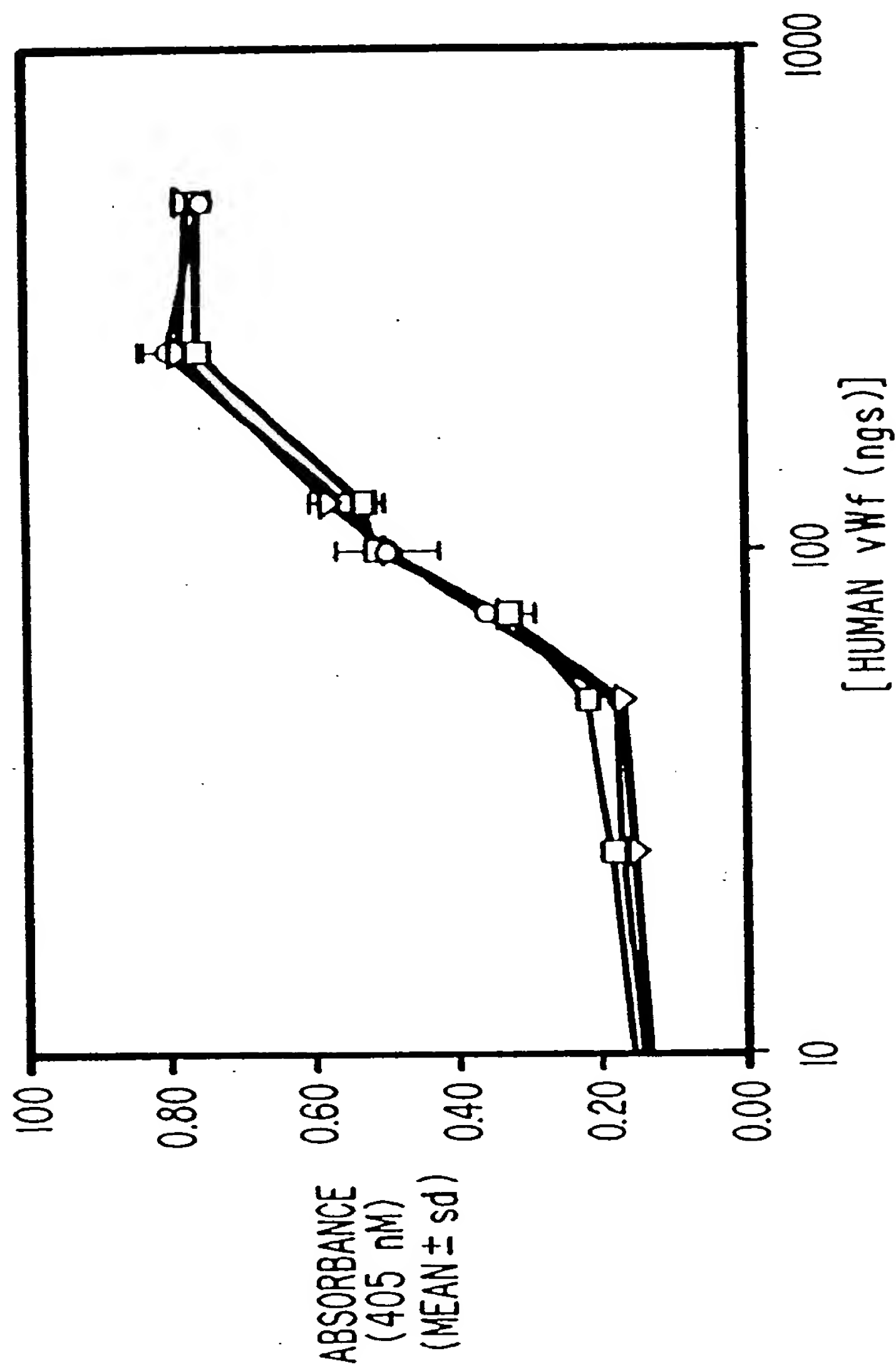


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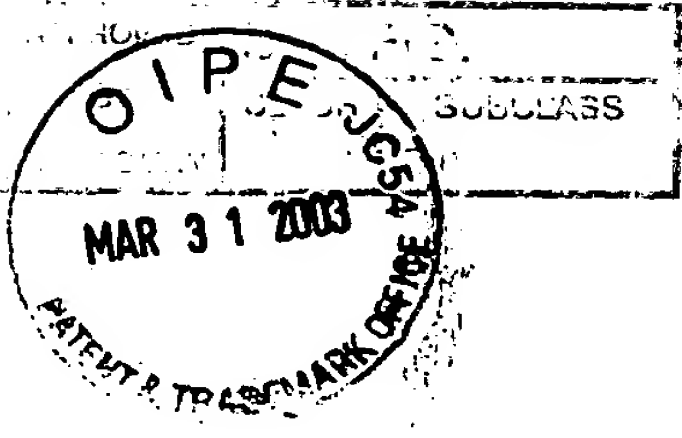


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FIG. 6

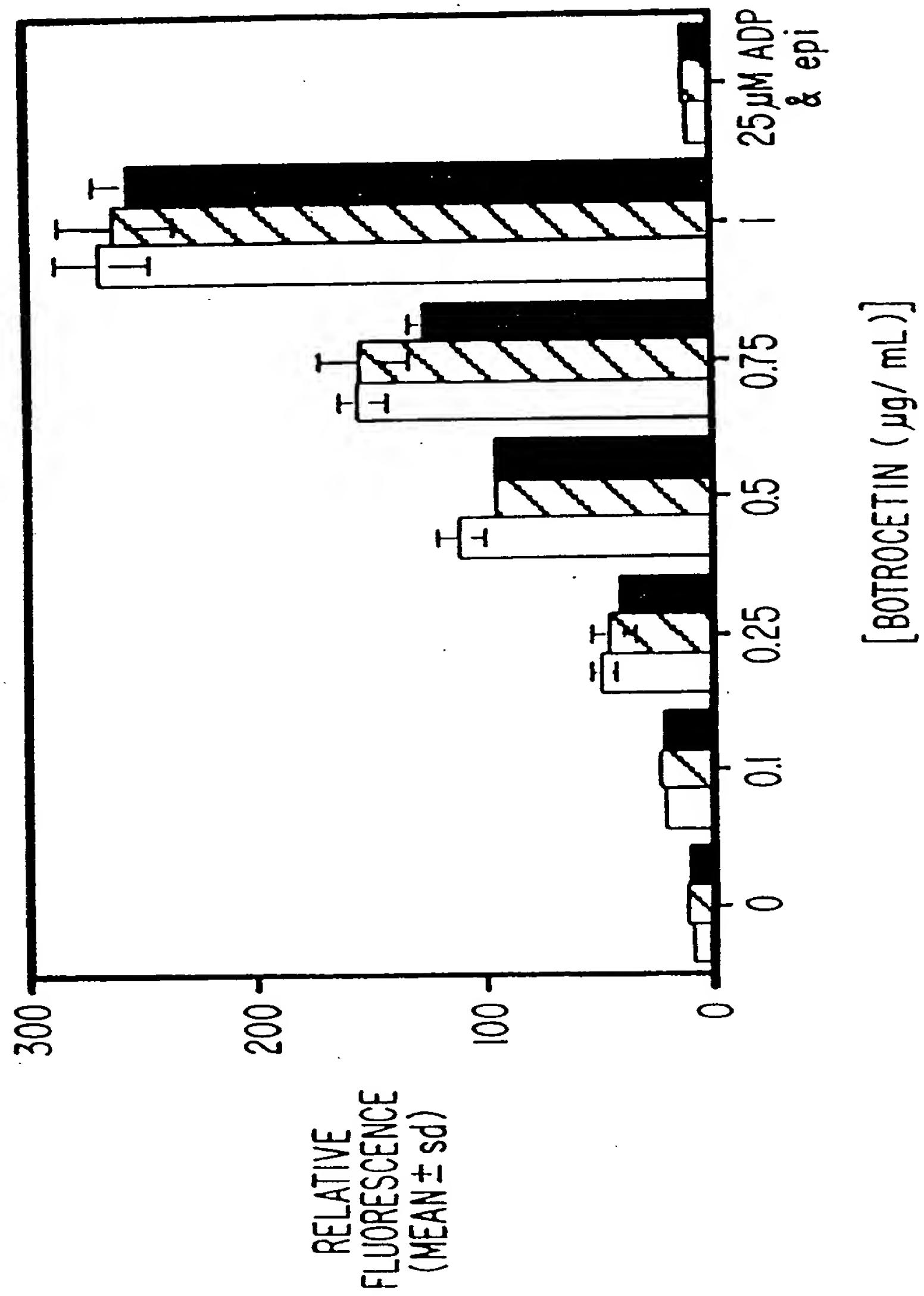


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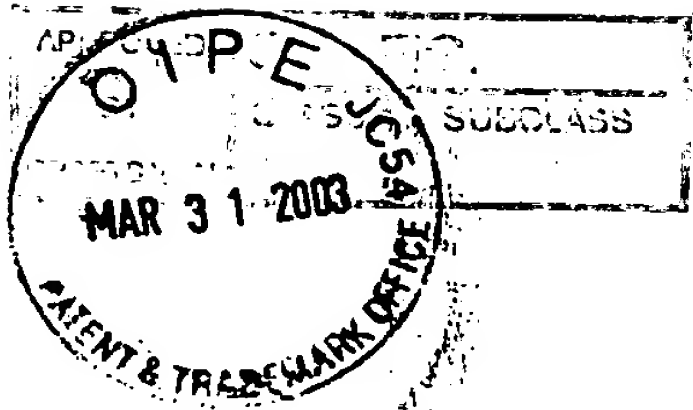


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FIG. 7

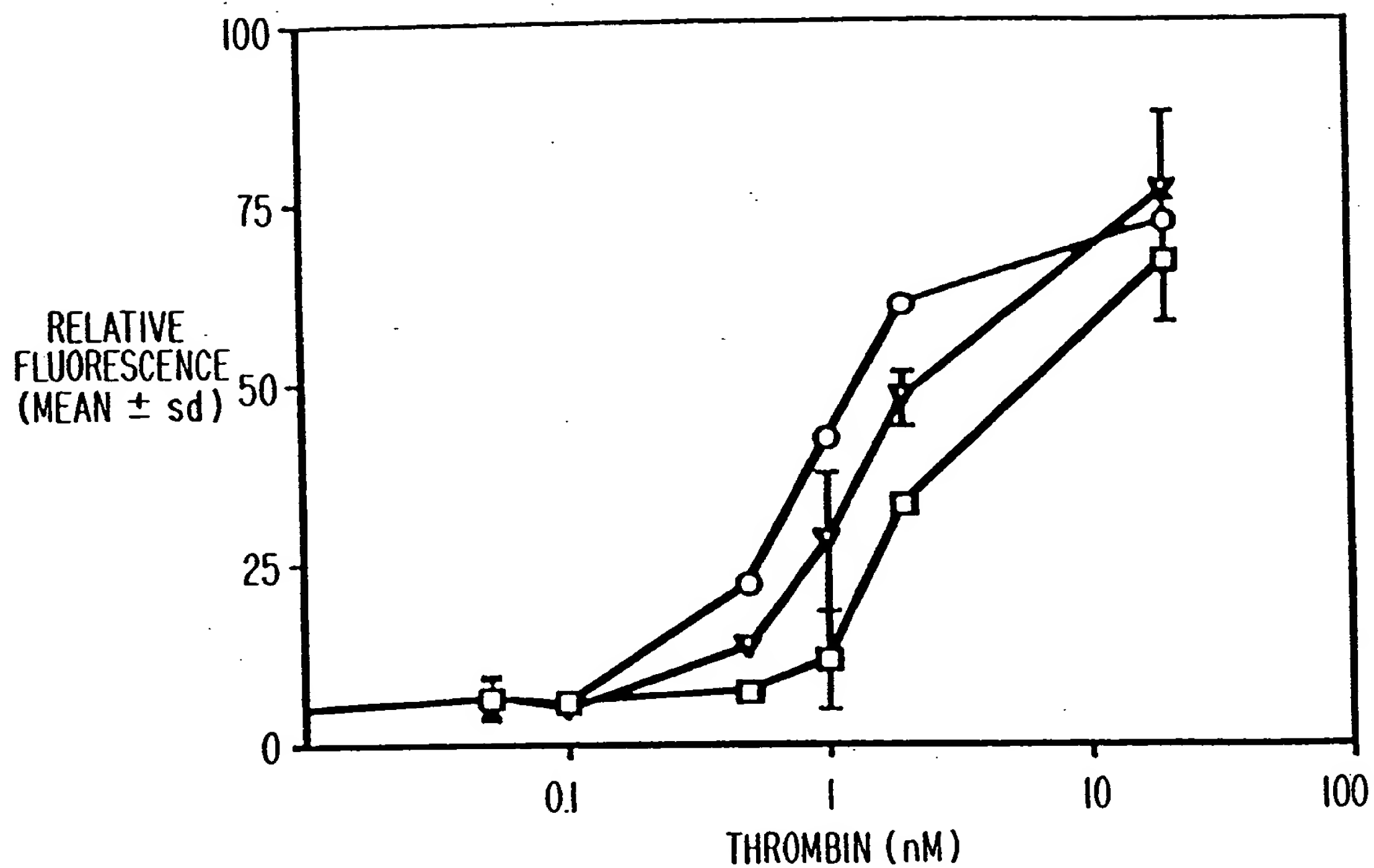


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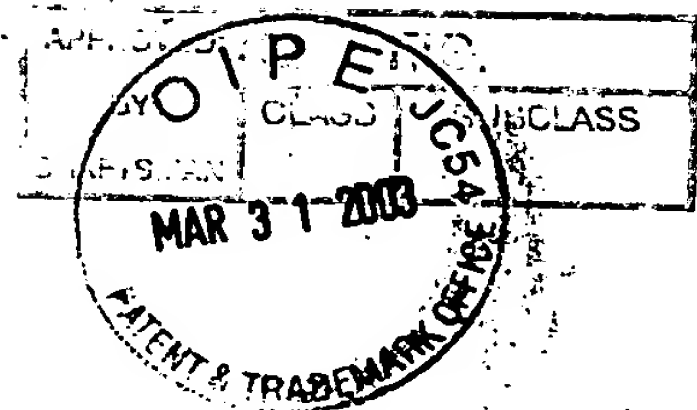


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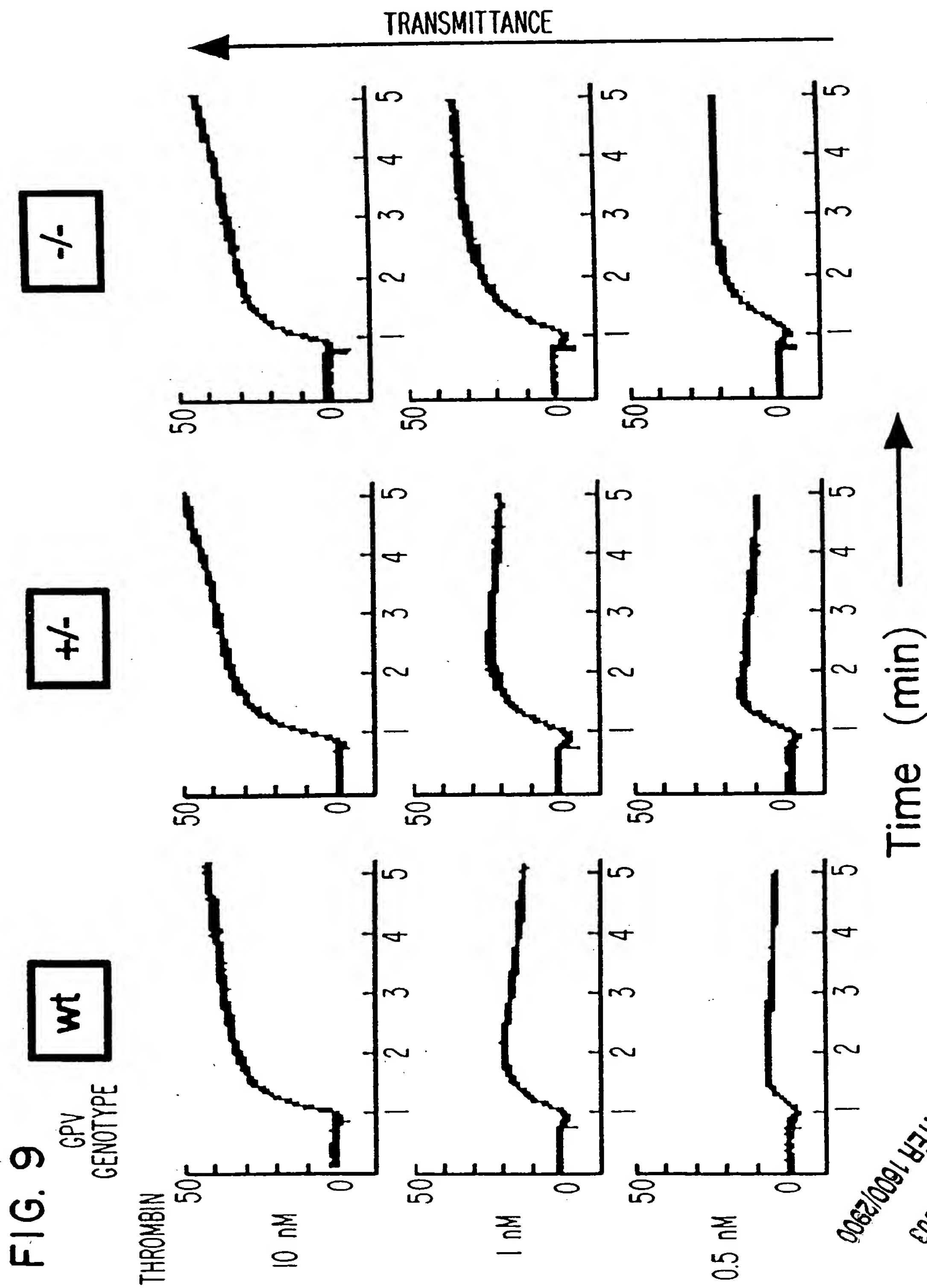
FIG. 8



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